

unit detects a phase of the code in a case where the correlation value is a maximum or greater than a reference value, as a despreading timing.

3. (Amended) The detection device according to claim 7 wherein the correlation value obtaining unit includes a matched filter.

4. (Amended) The detection device according to claim 7 wherein the correlation value obtaining unit includes a sliding correlator.

5. (Amended) The detection device according to claim 7 wherein the correlation value obtaining unit includes a matched filter to be used in a case where the length of code is short or part of the code is used, and a sliding correlator to be used in a case where the length of the code is long.

6. (Amended) The detection device according to claim 2 wherein the correlation value obtaining unit includes a matched filter to be used in a case where the length of a code is short or part of the code is used, and a sliding correlator to be used in a case where the length of the code is long.

7. (Amended) A detection device comprising:

a storage unit storing a transmitted signal in a demodulator of a direct sequence CDMA signal;

a code generation unit sequentially generating codes for a candidate for a despreading code;

a correlation value obtaining unit reading the signal stored in the storage unit to be despread by the code; and

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a detection unit detecting the code used for the despreading process as a spreading code on a transmission side, in a case where the correlation value obtained by the correlation value obtaining unit is a maximum or greater than a reference value,

wherein the detection device includes an adder, a memory unit storing an output from the adder, and a feedback path feeding back an output from the memory unit to the adder, and the correlation values obtained by the correlation value obtaining unit are totaled for a plurality of symbols.

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9. (Amended) A detection method of detecting a spreading code and a despreading timing in a demodulator of a direct sequence CDMA signal comprising:

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- (a) storing a transmitted signal;
 - (b) sequentially generating a code to be a candidate for a despreading code;
 - (c) reading the signal stored in step (a) to be despread by the code; and
 - (d) detecting the code used for the despreading process as a spreading code on a transmission side, in a case where the correlation value obtained in step (c) is a maximum or greater than a reference value,

wherein step (d) is executed by an adder, a memory storing an output from the adder, and a feedback path feeding back an output from the memory to the adder and wherein the correlation values obtained in step (c) are totaled for a plurality of symbols.

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12. (Amended) A detection device comprising:

- a storage unit storing a transmitted signal in spread spectrum communication;
- a code generation unit sequentially generating a code to be a candidate for a despreading code;

a correlation value obtaining unit reading the signal stored in the storage unit to be despread by the code by shifting a phase of the code; and

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a detection unit detecting a phase of the code used for the despreding process as a despreding code, in a case where the correlation value obtained by the correlation value obtaining unit a maximum or greater than a reference value,

wherein the detection device comprises an adder, a memory storing an output from the adder, and a feedback path feeding back an output from the memory to the adder, and the correlation values obtained by the correlation value obtaining unit are totaled for a plurality of symbols.